BRUHATH BENGALURU MAHANAGARA PALIKE

E–MEASUREMENT BOOK

Name of Work: ; Improvements to Roads and drains in Vinayaka nagara and Sorrounding Area in ward no ;14 , Dasarahalli Sub division

JOB-CODE NO. -014-19-000190

Name of work ; Improvements to Roads and drains in Vinayaka nagara and Sorrounding Area in ward no ;14 , Dasarahalli Sub division

	Pre measurement recorded on:						
Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
1	Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications.						
	Vinayaka Nagara 1 st Cross						
	For CC Drain						
	1 st Cross						
	RHS	1	30.00	1.20	0.90	32.40	
		1	30.00	1.20	0.90	32.40	
		1	14.00	1.20	0.90	15.12	
		1	17.50	1.20	0.90	18.90	
		1	30.00	1.20	0.90	32.40	
		1	6.00	1.20	1.00	7.20	
		1	8.00	1.20	0.90	8.64	
		1	30.00	1.20	1.00	36.00	
		1	7.00	1.20	1.00	8.40	
	Towards RO Plant	1	12.50	1.20	1.00	15.00	
				Total Quantity		206.46	**Cum**
				Payable Quantity		**206.46**	**Cum**

06/09/22

Assistant Engineer
Ward NO-14
BBMP Bangalore

06/09/22 to 08/09/22

06/09/22

Assistant Executive Engineer
Dasara halli Sub division
BBMP Bangalore

Name of work ; Improvements to Roads and drains in Vinayaka nagara and Sorrounding Area in ward no ;14 , Dasarahalli Sub division

	Pre measurement recorded on:						
Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
2	Providing and laying in position plain cement concrete of mix1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregtes @ 0.57 cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms, thick well compacted, in foundation and plinth including cost of all materials, labour, HOM of machinery, curing complete as per specifications						
	Vinayaka Nagara 1 st Cross						
	For CC Drain						
	1 st Cross						
	RHS	1	30.00	1.15	0.15	5.18	
		1	30.00	1.15	0.15	5.18	
		1	14.00	1.15	0.15	2.42	
		1	17.50	1.15	0.15	3.02	
		1	30.00	1.15	0.15	5.18	
		1	6.00	1.15	0.15	1.04	
		1	8.00	1.15	0.15	1.38	
		1	30.00	1.15	0.15	5.18	
		1	7.00	1.15	0.15	1.21	
	Towards RO Plant	1	12.50	1.10	0.15	2.06	
			185.00				
				Total Quantity		31.82	**Cum**
				Payable Quantity		**31.02**	**Cum**

08/09/22

Assistant Engineer
Ward NO-14
BBMP Bangalore

08/09/22

Assistant Executive Engineer
Dasara halli Sub division
BBMP Bangalore

Name of work ; Improvements to Roads and drains in Vinayaka nagara and Sorrounding Area in ward no ;14 , Dasarahalli Sub division

	Pre measurement recorded on:						
Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
3	Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications.						
	Vinayaka Nagara 1 st Cross						
	For CC Drain						
	1 st Cross						
	For Side walls of drain						
	1 st Cross						
	RHS	4	30.00		0.60	72.00	
		4	30.00		0.60	72.00	
		4	14.00		0.60	33.60	
		4	17.50		0.60	42.00	
		4	30.00		0.60	72.00	
		4	6.00		0.75	18.00	
		4	8.00		0.75	24.00	
		4	30.00		0.75	90.00	
		4	7.00		0.75	21.00	
	Towards RO Plant	4	12.50		0.75	37.50	
				Total Quantity		482.10	Sqm
				Payable Quantity		479.40	Sqm

13/09/22

Assistant Engineer
Ward NO-14
BBMP Bangalore
10/09/22 to 13/09/22

Asst. Executive Engineer,
Dasara halli Sub division
BBMP Bangalore
13/09/22

Name of work ; Improvements to Roads and drains in Vinayaka nagara and Sorrounding Area in ward no ;14 , Dasarahalli Sub division

	Pre measurement recorded on:						
Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
4	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6						
	Vinayaka Nagara 1 st Cross						
	For CC Drain						
	For Raft 1 st Cross						
	1 st Cross						
	RHS	1	30.00	1.00	0.15	4.50	
		1	30.00	1.00	0.15	4.50	
		1	14.00	1.00	0.15	2.10	
		1	17.50	1.00	0.15	2.63	
		1	30.00	1.00	0.15	4.50	
		1	6.00	1.00	0.15	0.90	
		1	8.00	1.00	0.15	1.20	
		1	30.00	1.00	0.15	4.50	
		1	7.00	1.00	0.15	1.05	
	Towards RO Plant	1	12.50	1.00	0.15	1.88	
	For Side wall						
		2	30.00	0.15	0.55	4.95	
		2	30.00	0.15	0.60	5.40	
		2	14.00	0.15	0.55	2.31	
		2	17.50	0.15	0.55	2.89	
		2	30.00	0.15	0.60	5.40	
		2	6.00	0.15	0.60	1.08	
		2	8.00	0.15	0.55	1.32	
		2	30.00	0.15	0.60	5.40	
		2	7.00	0.15	0.55	1.16	
		2	12.50	0.15	0.55	2.06	
				Total Quantity		59.72	Cum
				Payable Quantity		**59.22**	Cum

checked 13/09/22

10/09/22 to 13/09/22

Assistant Engineer
Ward NO-14
BBMP Bangalore

Asst. Executive Engineer,
Dasara halli Sub division
BBMP Bangalore

BHURAT BENGALURU MAHANAGAR PALIKE

DASARAHALLI DIVISION

Name of work ; Improvements to Roads and drains in Vinayaka nagara and Sorrounding Area in ward no ;14 , Dasarahalli Sub division

Pre-Measurement Sheet

	Premeasurement Recorded on;									

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5	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications

Sl no	Dia of Bar in mm	Side	Spacing of Bar	Nos	Length of Bar in mtr	Total Length of Bar in mtr	Type of Bar	Standard Weight per Mete	Weight of Steel in kgs	Unit
For Drain										
Vinayaka Nagara 1 st Cross										
1 st Cross RHS										
1	10	1	150mm/CC	9	185.00	1665.0	Distributi	0.62	1032.30	
2	12	1	150mm C/c	1175	2.2	2585.0	Main Bar	0.89	2300.65	
	Towards RO Plant									
1	10	1	150mm/CC	9	12.50	112.5	Distributi	0.62	69.75	
2	12	1	150mm C/c	83	2.2	183.3	Main Bar	0.89	163.17	
								Total Quantity of Steel in Kg's	3565.87	Kgs
								Total Quantity of Steel in Tonne's	3.57	Tonnes
								Payable Quantity	3.55	Tonnes

08/09/22

Asst Engineer
Ward No;14

08/09/22

Assistant Executive Engineer
Dasarahalli Sub Division

Name of work ; Improvements to Roads and drains in Vinayaka nagara and Sorrounding Area in ward no ;14 , Dasarahalli Sub division

	Pre measurement recorded on:						
Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
6	**Providing and and fixing Precast Concrete slab 10 CM thick witth all lead and lift as per specification**						
	Vinayaka Nagara 1 st Cross						
	For CC Drain						
	1 st Cross						
	RHS	1	30.00	0.90		27.00	
		1	30.00	0.90		27.00	
		1	14.00	0.90		12.60	
		1	17.50	0.90		15.75	
		1	30.00	0.90		27.00	
		1	6.00	0.90		5.40	
		1	8.00	0.90		7.20	
		1	30.00	0.90		27.00	
		1	7.00	0.90		6.30	
	Towards RO Plant	1	12.50	0.90		11.25	
		5	0.60	0.90		2.70	
				Total Quantity		169.20	
				Payable Quantity		**169.20**	Sqm

28/10/22

Assistant Engineer 27/10/22
Ward NO-14
BBMP Bangalore

Asst. Executive Engineer 28/10/22
Dasara halli Sub division
BBMP Bangalore

Name of work ; Improvements to Roads and drains in Vinayaka nagara and Sorrounding Area in ward no ;14 , Dasarahalli Sub division

	Pre measurement recorded on:						
Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
7	Transportation &disposing of the excavated earth obtained from side drains and high burms on either side of the road						
	Vinayaka Nagara 1 st Cross						
	Quantity Vide item No 1				Total Qty	206.46	**Cum**
					Payable Qty	206.46	**Cum**

23/10/22

23/10/22

Assistant Engineer
Ward NO-14
BBMP Bangalore

Asst. Executive Engineer,
Dasara halli Sub division
BBMP Bangalore